Notice of Allowability	Application No.	Applicant(s)	
	09/727,096	MONTGOMERY, DENNIS L.	
	Examiner	Art Unit	
	Tony Mahmoudi	2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the amendment filed on 13-July-2005*.

2. ☒ The allowed claim(s) is/are *2-4, 6-7, 11, 14, 16-22, 26, 29, 47 and 54, re-numbered as claims 1-18.*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

 * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20050830-1* .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

Remarks

1. In response to the amendment filed on 13-July-2005, claims 1, 5, 8-10, 12-13, 15, 23-25, 27-28, 30-46, 48-53, 55-63 and 67-73 are canceled, claims 2-4, 6-7, 11, 14, 16-17 and 47 are amended per applicant's request. Therefore, claims 2-4, 6-7, 11, 14, 16-22, 26, 29, 47, 54 and 64-66 are presently pending in the application, of which, claim 17 is presented in independent format.

2. In view of the examiner's amendment, authorized by the Attorney of Record, claims 6, 7, 14, 16, 21, and 64-66 are further amended or cancelled by the examiner (details provided below.)

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David Jakopin (Attorney of Record) on 30-August-2005 (see enclosed Interview Summary, paper No. 20050830-1.)

Claims 6, 7, 14, 16, and 21, are amended by the examiner and claims 64-66 are canceled (to avoid duplicate claims), as follows:

6. (Currently Amended) A method according to claim 17 further comprising ~~the~~ a step of combining compressed blocks in each of the plurality of compressed first threads to obtain digitally compressed data.

7. (Currently Amended) A method according to claim 17 wherein the step of creating the plurality of first threads includes ~~the~~ a step of associating each of the plurality of blocks of digital data with one of the plurality of the first threads such that blocks within each of the plurality of first threads share certain common compression characteristics.

14. (Currently Amended) A method according to claim 17 further including ~~the~~ a step of predicting an estimated compression time and estimated amount for each block.

16. (Currently Amended) A method according to claim 17 wherein the step of partitioning data includes ~~the~~ a step of determining the size of each of the plurality of blocks taking data type of each block into account.

21. (Currently Amended) A method according to claim 17 further comprising ~~the~~ a step of combining compressed blocks in each of the plurality of compressed second threads to obtain digitally compressed data.

64-66. (Canceled)

Allowance

4. Claims 2-4, 6-7, 11, 14, 16-22, 26, 29, 47, 54 and 64-66 are allowed over the prior art made of record.

5. The following is an examiner's statement of reasons for allowance:

The applicant's amendment filed on 13-July-2005, overcome the cited prior art with respect to the independent claims. Claim 17 has been re-written by the applicant as an independent claim, featuring the previously "objected to" allowable subject matter. All other claims depend from the sole independent claim 17.

The examiner's amendment authorized by the attorney of record on 30-August-2005, overcomes various 35 U.S.C. §112, second paragraph and duplicate claim issues with the applicant's amendment and re-routing of the claims.

The prior art of record, Johns (U.S. Patent No. 6,366,289), Wang et al (U.S. Patent No. 6,212,657), Notenboom (U.S. Patent No. 5,109,433), Simms (U.S. Patent No. 5,586,280), and Morikawa et al (U.S. Patent No. 6,043,897), do not disclose, teach, or suggest the claimed limitations of (in combination with all other features in the claim):

operating upon each of the compressed first threads to eliminate each of the compressed first threads and retain the compressed first blocks;

creating a plurality of second threads, such that each second thread includes at least one of the plurality of compressed first blocks; and

operating upon each of the plurality of second threads to obtain a plurality of compressed second threads, each compressed second thread including at least one compressed second block of digital data, as recited in independent claims 17.

Claims 2-4, 6-7, 11, 14, 16, 18-22, 26, 29, 47, 54 and 64-66 are allowed over the prior art made of record, because they are dependents from the allowed independent claim 17.

Conclusion

6. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Tony Mahmoudi whose telephone number is (571) 272-4078. The examiner can normally be reached on Mondays-Fridays from 08:00 am to 04:30 pm.

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August 30, 2005